

Applicant: Showalter

Serial No.: 10/810,114

Filed: 03/25/2004

Title: ANCHOR ATTACHMENT AND SETSCREW FOR A ROOF PANEL RIB

Examiner: Bartosik, Anthony N

Page 2 of 6

IN THE SPECIFICATION

There are no changes to the specification

IN THE CLAIMS

Kindly amend the following claims as indicated.

1. (Currently amended) A roof panel rib anchor for attachment to a roof panel rib of a roof panel on a roof, the roof panel rib having a rib head supported from the roof panel on a rib base that narrows to a rib neck smaller than the rib head at its intersection with the rib head, the roof panel rib anchor comprising,

first and second opposing anchor sides depending from an anchor top forming a channel within, adapted to receive said roof panel rib head and part of the roof panel rib neck in the channel,

a threaded setscrew penetrating at least one anchor side through a matching threaded hole and separated from the anchor top such that said rib head is receivable in the channel between the ~~setserews~~ setscrew and the anchor top, the ~~setserews~~ setscrew securing the rib head in the channel when received therein, the ~~setserews~~ setscrew intersecting the roof panel rib in the channel at the roof panel rib neck at least partially closing the channel such that said anchor head is prevented from passing out of the channel, the ~~setserews~~ setscrew imparting clamping force on the roof panel rib neck preventing the anchor from sliding on the roof panel rib, threads of the ~~setserews~~ setscrew ending intermediate the setscrew, leaving a smooth rod terminating on a rounded setscrew end with a smooth abutment surface spaced apart from the threads by the smooth rod, the rod end integral with its smooth abutment surface blending smoothly and continuously into the smooth rod,

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Page 4 of 6

a rib bar unattached generally except as may be bound by said ~~set-screw~~ setscrew and unattached specifically to said roof and said roof panel and, the rib bar being adapted to fit within the neck between the roof panel rib neck opposing sides bracing them from collapsing or suffering deformation in shape under said clamping force of said ~~set-screw~~ setscrew, substantially maintaining the shape and structural integrity of the roof panel under said clamping force.

2. (Canceled)

3. (Canceled)

4. (New Claim) A roof panel rib anchor for attachment to a roof panel rib of a roof panel on a roof, the roof panel rib having a rib head supported from the roof panel on a rib base that narrows to a rib neck smaller than the rib head at its intersection with the rib head, the roof panel rib anchor comprising,

first and second opposing anchor sides depending from an anchor top forming a channel within, adapted to receive said roof panel rib head and at least part of the roof panel rib neck in the channel,

a threaded setscrew penetrating at least one anchor side through a matching threaded hole and separated from the anchor top such that said rib head is receivable in the channel between the setscrew and the anchor top, the setscrew securing the rib head in the channel when received therein, the setscrew intersecting the roof panel rib in the channel at the roof panel rib

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Examiner: Bartosik, Anthony N

Page 5 of 6

neck at least partially closing the channel such that said anchor head is prevented from passing out of the channel, the setscrew imparting clamping force on the roof panel rib neck preventing the anchor from sliding on the roof panel rib,

a rib bar unattached generally except as may be bound by said setscrew and unattached specifically to said roof and said roof panel and, the rib bar being adapted to fit at least partially within the neck between the roof panel rib neck opposing sides bracing them from collapsing or suffering deformation in shape under said clamping force of said setscrew, substantially maintaining the shape and structural integrity of the roof panel under said clamping force.